

LIGHT DIFFUSING COMPOSITES

ABSTRACT

A thermoplastic material composite panel, comprising a transparent thermoplastic base layer, light conducting, having a thickness generally in the range 3-40 mm, and a light diffusing layer, having a thickness generally in the range 10-1500 micron, placed on one face of the base layer, said diffusing layer being characterized in that it contains barium sulphate in amount by weight, expressed as per cent ratio on the total weight of the diffusing layer, in the range 0.01-2%, the barium sulphate having average particle sizes in the range 0.1-50 micron, the composite sizes being greater than or equal to 10 cm.

BEST AVAILABLE COPY